What is claimed is:

- A method for forming a conductive film of a semiconductor device comprising:
- i) nitrifying a semiconductor substrate on which a tungsten film having a partially oxidized surface is formed, to form a tungsten nitride film on the surface of the tungsten film;
- ii) oxidizing the surface of the tungsten film having the tungsten nitride film to change the tungsten nitride film into a tungsten oxy-nitride film; and
- iii) removing the tungsten oxy-nitride film and any residue generated by a reaction of tungsten from the surface of the tungsten film, to form a tungsten film.
- 2. The method for forming a conductive film of a semiconductor device as claimed in claim 1, wherein (i) is performed through a rapid thermal nitrification method or a plasma process using a gas including a nitrogen compound.
- 3. The method for forming a conductive film of a semiconductor device as claimed in claim 2, wherein the plasma process is performed at an energy of approximately 200 to 1000 W using at least one reaction gas selected from the group consisting of NH₃ gas, NF gas and N₂ gas.

- 4. The method for forming a conductive film of a semiconductor device as claimed in claim 1, wherein (ii) is performed through a rapid thermal oxidization process or a plasma process using an oxygen gas.
- 5. The method for forming a conductive film of a semiconductor device as claimed in claim 1, wherein the tungsten oxy-nitride film is removed using an etching solution for etching oxide in (iii).
- 6. The method for forming a conductive film of a semiconductor device as claimed in claim 5, wherein the etching solution comprises hydrofluoric acid or a mixture of hydrofluoric acid and hydrogen peroxide.
- 7. A method for forming a conductive pattern of a semiconductor device comprising:
- i) forming a conductive film mainly composed of tungsten on a semiconductor substrate;
 - ii) forming a photo resist pattern on the conductive film;
- iii) forming a conductive pattern by etching the conductive film using the photo resist pattern as an etching mask;
- iv) removing the photo resist pattern while a surface of the conductive pattern is partially oxidized;

- v) nitrifying the conductive pattern including the partially oxidized surface to change the tungsten in the surface of the conductive pattern into a tungsten nitride film;
- vi) oxidizing the conductive pattern including the tungsten nitride film formed thereon to change the tungsten nitride film formed on the surface of the conductive pattern into a tungsten oxy-nitride film; and
- vii) forming a conductive pattern without an oxide on the conductive pattern by removing the tungsten oxy-nitride film.
- 8. The method for forming a conductive pattern of a semiconductor device as claimed in claim 7, wherein the conductive film comprises a tungsten film and a tungsten silicide film.
- 9. The method for forming a conductive pattern of a semiconductor device as claimed in claim 7, wherein (v) is performed by a rapid thermal nitrification process or a plasma process using a gas including a nitrogen compound.
- 10. The method for forming a conductive pattern of a semiconductor device as claimed in claim 9, wherein the plasma process is performed at an energy of approximately 200 to 1000 W using at least one reaction gas selected from the group consisting of NH₃ gas, NF gas and N₂ gas.

- 11. The method for forming a conductive pattern of a semiconductor device as claimed in claim 7, wherein (vi) is performed by a rapid thermal oxidization process or a plasma process using an oxygen gas.
- 12. The method for forming a conductive pattern of a semiconductor device as claimed in claim 7, wherein the tungsten oxy-nitride film is removed using an etching solution for etching oxide in (vii).
- 13. The method for forming a conductive pattern of a semiconductor device as claimed in claim 12, wherein the etching solution comprises hydrofluoric acid or a mixture of hydrofluoric acid and hydrogen peroxide.
- 14. The method for forming a conductive pattern of a semiconductor device as claimed in claim 7, wherein (i) further comprises forming a silicon nitride film on the conductive film.
- 15. The method for forming a conductive pattern of a semiconductor device as claimed in claim 7, further comprising forming a nitride spacer at a side portion of the conductive pattern after (vii).
- 16. A method for forming a conductive pattern of a semiconductor device comprising:

- i) forming a conductive film mainly composed of tungsten on a semiconductor substrate;
 - ii) forming a photoresist pattern on the conductive film;
- iii) forming a conductive pattern on which the photoresist pattern is formed by etching the conductive film using the photoresist pattern as an etching mask;
- iv) nitrifying the conductive pattern to change the tungsten in a side portion of the conductive pattern into a tungsten nitride film;
- v) removing the photoresist pattern using a gas including oxygen, and simultaneously changing the tungsten nitride film into a tungsten oxy-nitride film; and
- vi) forming a conductive pattern without an oxide on the conductive pattern by removing the tungsten oxy-nitride film.
- 17. The method for forming a conductive pattern of a semiconductor device as claimed in claim 16, wherein the conductive film comprises a tungsten film and a tungsten silicide film.
- 18. The method for forming a conductive pattern of a semiconductor device as claimed in claim 16, wherein (iv) is performed by a rapid thermal nitrification process or a plasma process using a gas including a nitrogen compound.

- 19. The method for forming a conductive pattern of a semiconductor device as claimed in claim 18, wherein the plasma process is performed at an energy of approximately 200 to 1000 W using at least one reaction gas selected from the group consisting of NH_3 gas, NF gas and N_2 gas.
- 20. The method for forming a conductive pattern of a semiconductor device as claimed in claim 16, wherein (v) is performed by a plasma process using an oxygen gas.
- 21. The method for forming a conductive pattern of a semiconductor device as claimed in claim 16, wherein the tungsten oxynitride film is removed using an etching solution for etching oxide in (vi).
- 22. The method for forming a conductive pattern of a semiconductor device as claimed in claim 21, wherein the etching solution comprises hydrofluoric acid or a mixture of hydrofluoric acid and hydrogen peroxide.
- 23. The method for forming a conductive pattern of a semiconductor device as claimed in claim 16, the step (i) further comprising forming a silicon nitride film on the conductive film.

24. The method for forming a conductive pattern of a semiconductor device as claimed in claim 16, further comprising forming a nitride spacer at a side portion of the conductive pattern after (vi).